



PATENT

Attorney Docket No.: A-70233/RFT/THR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

APPELS et al.

Serial No. 09/743,533

Filed: January 10, 2001

For: MODIFIED PROTEINS

Examiner: R. Teller

Group Art Unit: 1654

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None of the foregoing references is believed to disclose the invention as claimed. Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

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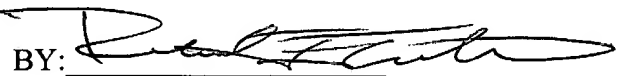
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Respectfully submitted,

DORSEY & WHITNEY LLP

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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### Complete if Known

Application Number	09/743,533
Filing Date	January 10, 2001
First Named Inventor	Appels et al.
Group Art Unit	1654
Examiner Name	R. Teller
Attorney Docket Number	A-70233/RFT/466272-011

Sheet	2	of	2
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### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	C5	Blechl, A.E., et al., "Applications of Molecular Biology to Understanding and Improving Wheat Quality", <i>Proceedings, International Wheat Quality Conference</i> , J. Steele, et al., Eds., pp. 205-211 (1997).	
	C6	Shimoni, Y., et al., "A Recombinant Protein in Two High Molecular Weight Glutenins Alters Gluten Polymer Formation in Transgenic Wheat", <i>The Journal of Biological Chemistry</i> , 272: 15488-15495 (1997).	
	C7	Aalen, R.B., "The transcript encoding two oleosin isoforms are both present in the aleurone and in the embryo of barley ( <i>Hordeum vulgare</i> )", <i>Plant. Mol. Biol.</i> , 28:583-588 (1995).	
	C8	Bekes, F., et al., "Mixing Properties as a Measure of Reversible Reduction and Oxidation of Doughs", <i>Cereal Chemistry</i> , 71:44-50 (1994).	
	C9	Bushuk, W., "Interactions in Wheat Doughs", <i>Interactions: The Keys to Cereal Quality</i> , R.J. Hamer, R.C. Hoskeny, Eds., American Association of Cereal Chemists, Inc., St. Paul, MN, pp. 1-16 (1998).	
	C10	Chamberlain, D.A., et al., "The use of the Emu promoter with antibiotic and herbicide resistance genes for the selection of transgenic wheat callus and rice plants", <i>Australian Journal of Plant Physiology</i> , 21:95-112 (1994).	
	C11	Ciaffi, M., et al., "The low molecular weight glutenin subunit proteins of primitive wheats. III. The genes from D-genome species", <i>Theoretical and Applied Genetics</i> , 98:135-148 (1999).	
	C12	Dubreil, L., et al., "Interaction of Puroindolines with wheat flour polar lipids determines their foaming properties", <i>J. Agric. Food Chem.</i> , 45:108-116 (1997).	
	C13	Gan, Z., et al., "Gas cell stabilization and gas retention in wheat bread dough", <i>Journal of Cereal Science</i> , 21:215-230 (1995).	
	C14	Gonzalez De La Pena M. et al. "Expression in <i>Escherichia coli</i> of Sin a 1 the major allergen from mustard" <i>European Journal of Biochemistry</i> 237: 827-832 (1996).	
	C15	Huang, A.H.C., "Oleosins and oil bodies in seeds and other organs", <i>Plant Physiology</i> , 110:1055-1061 (1996).	
	C16	Kasarda, D.D., "Glutenin structure in relation to wheat quality", <i>Wheat is Unique</i> , Y. Pomeranz, Ed., American Assoc. Cereal Chem., St. Paul, MN, pp. 277-302 (1989).	
	C17	Kobrehel, K., and Sauvaire, Y., "Particular lipid composition in isolated proteins of durum wheat", <i>J. Agric. Food Chem.</i> , 38:1164-1171 (1990).	
	C18	Le Gal-Coeffet M.F., et al., "Expression in <i>Aspergillus Niger</i> of the starch-binding domain of glucoamylase," <i>Eur. J. Biochem.</i> , 233:561-567 (1995).	
	C19	MacRitchie, F., "Physicochemical properties of wheat proteins in relation to functionality", <i>Adv. Food Nutr. Research</i> , Academic Press Inc. 36:1-87 (1992).	
	C20	Morrison, W.R., "Recent progress on the chemistry and functionality of flour lipids", <i>Wheat end-use properties: Wheat and flour characterization for special end uses</i> , 131-149, H. Salovaara, Ed., University of Helsinki, Lahti (1989).	
	C21	Tamas, L. et al. "Heterologous expression and dough mixing studies of wild type and mutant c hordeins. <i>Journal of Cereal Science</i> , 27: 15-22 (1998).	
	C22	Weeks, J.T., et al., "Rapid production of multiple independent lines of fertile transgenic wheat ( <i>Triticum aestivum</i> )", <i>Plant Physiology</i> 102:1077-1084 (1993).	
	C23	Witzens, B., et al., "Comparison of three selectable marker genes for transformation of wheat by microprojectile bombardment" <i>Aust. J. Plant Physiology</i> 25:39-44 (1998).	

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		Filing Date	January 10, 2001
		First Named Inventor	Appels et al. TECH CENTER 1600/2900
		Group Art Unit	1654
		Examiner Name	R. Teller
Sheet 1 of 2	Attorney Docket Number	A-70233/RFT/466272-011	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1				
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FOREIGN PATENT DOCUMENTS						
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	B1	WO 97/25419	07/17/1997	U.S. SECRETARY OF AGRICULTURE		
	B2	WO 98/08607	3/05/1998	U.S. SECRETARY OF AGRICULTURE		
	B3	WO 98/07747	2/26/1998	University of Florida		
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	B6					
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	C1	Alpeter F. et al. "Integration and expression of the high- molecular –weight glutenin subunit 1 Ax1 Gene into wheat" <i>Nature Biotechnology</i> , 14: 1155-1170 (1996).				
	C2	Anderson O D et al. " Construction and expression of a synthetic wheat storage protein gene" <i>GENE</i> , 174: 51-58 (. 1996).				
	C3	Blechl, A., et al., "Engineering Changes in Wheat Flour by Genetic Engineering", <i>Journal of Plant Physiology</i> , 152:703-707 (1998).				
	C4	D'Ovidio, R., "Construction of Novel Wheat High-M, Glutenin Subunit Gene Variability: Modification of the Repetitive Domain and Expression in E.coli", <i>Journal of Cereal Science</i> , 25:1-8 (1997).				

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